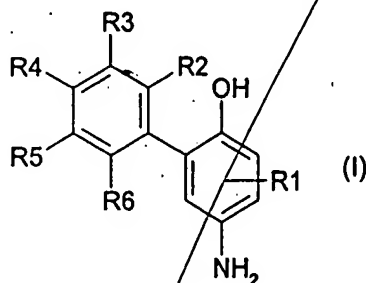


PATENT CLAIMS

1. Colorants for oxidative dyeing of keratin fibers, particularly human hair, based on a developer-coupler combination, characterized in that it contains as the developer at least one 2-hydroxy-5-aminobiphenyl derivative of general formula (I) or a physiologically tolerated, water-soluble salt thereof



wherein

R1 denotes hydrogen, a halogen atom, a C₁-C₄-alkyl group, a C₁-C₄-hydroxyalkyl group, a C₁-C₄-alkoxy group or a C₁-C₄-hydroxyalkoxy group;

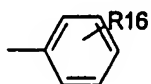
R2, R3, R4, R5, R6 can be equal or different and independently of each other denote hydrogen, a halogen atom, a cyano group, a hydroxy group, a C₁-C₄-alkoxy group, a C₁-C₄-hydroxyalkoxy group, a C₁-C₆-alkyl group, a C₁-C₄-alkyl thioether group, a mercapto group, a nitro group, an amino group, an alkylamino group, a dialkylamino group, a trifluoromethyl group, a -C(O)H group, a -C(O)CH₃ group, a -C(O)CF₃ group, an -Si(CH₃)₃ group, a C₁-C₄-hydroxyalkyl group, a C₃-C₄-dihydroxyalkyl group, a -CH=CHR₇ group, a -(CH₂)_p-CO₂R₈ group or a -(CH₂)_pR₉ with p = 1, 2, 3 or 4, a -C(R₁₀)=NR₁₁ or C(R₁₂)H-NR₁₃R₁₄ group, or two adjacent R₂ to R₆ groups form an -O-CH₂-O- bridge;

R7 denotes hydrogen, a hydroxyl group, a nitro group, an amino group, a -CO₂R₁₂ group or a -C(O)CH₃ group;

R8, R10 and R13 can be equal or different and independently of each other denote hydrogen or a C₁-C₄-alkyl group;

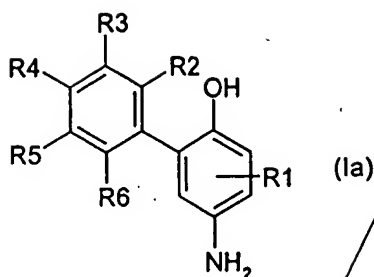
R9 denotes an amino group or a nitrile group;

R11, R14 and R15 can be equal or different and independently of each other denote hydrogen, a hydroxyl group, a C₁-C₄-alkyl group, a C₁-C₄-hydroxyalkyl group, a C₃-C₄-dihydroxyalkyl group or a radical of formula



R12 denotes hydrogen, an amino group or a hydroxyl group, provided that the compound of formula (I) does not present a center of symmetry.

2. Colorant according to Claim 1, characterized in that **R1** denotes hydrogen.
3. Colorant according to Claim 1 or 2, characterized in that **R1** denotes hydrogen and four of the **R2** to **R6** groups denote hydrogen while the fifth group is hydrogen, a methyl group, an amino group, a hydroxyl group, a methoxy group, a C₁-C₄-hydroxyalkyl group or a C₁-C₄-hydroxyalkoxy group.
4. Colorant according to Claim 1 or 2, characterized in that all **R1** to **R6** groups denote hydrogen at the same time.
5. Colorant according to Claim 1, characterized in that four of groups **R2** to **R6** are hydrogen while the fifth group is hydrogen, a methyl group, an amino group, a hydroxyl group, a methoxy group, a C₁-C₄-hydroxyalkyl group or a C₁-C₄-hydroxyalkoxy group.
6. Colorant according to one of Claims 1 to 5, characterized in that the 2-hydroxy-5-aminobiphenyl derivative of formula (I) is selected from among 2-hydroxy-5-aminobiphenyl, 2,4'-dihydroxy-5-aminobiphenyl, 2-hydroxy-5-amino-4'-(2"-hydroxyethoxy)biphenyl, 2,4'-dihydroxy-5-amino-2'-methylbiphenyl, 2-hydroxy-5-amino-4'-(2"-hydroxyethyl)biphenyl, 2-hydroxy-5,4'-diaminobiphenyl or a physiologically tolerated salt thereof.
7. Colorant according to one of Claims 1 to 6, characterized in that it contains the 2-hydroxy-5-aminobiphenyl derivative of formula (I) in an amount from 0.005 to 20.0 wt%.
8. Colorant according to one of Claims 1 to 7, characterized in that it has a pH of 6.5 to 11.5.
9. 2-Hydroxy-5-aminobiphenyl derivatives of formula (Ia) or a physiologically tolerated, water-soluble salt thereof



wherein

R1 denotes hydrogen, a halogen atom, a C₁-C₄-alkyl group, a C₁-C₄-hydroxyalkyl group, a C₁-C₄-alkoxy group or a C₁-C₄-hydroxyalkoxy group;

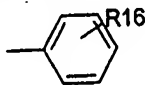
R2, R3, R4, R5, R6 can be equal or different and independently of each other denote hydrogen, a halogen atom, a cyano group, a hydroxyl group, a C₁-C₄-alkoxy group, a C₁-C₄-hydroxyalkoxy group, a C₁-C₆-alkyl group, a C₁-C₄-alkyl thioether group, a mercapto group, a nitro group, an amino group, an alkylamino group, a dialkylamino group, a trifluoromethyl group, a -C(O)H group, a -C(O)CH₃ group, a -C(O)CF₃ group, an -Si(CH₃)₃ group, a C₁-C₄-hydroxyalkyl group, a C₃-C₄-dihydroxyalkyl group, a -CH=CHR₇ group, a -(CH₂)_p-CO₂R₈ group or a -(CH₂)_p-R₉ group with p = 1, 2, 3 or 4, a -C(R₁₀)=NR₁₁ group or a C(R₁₂)H-NR₁₃R₁₄ group, or two adjacent R₂ to R₆ groups form an -O-CH₂-O- bridge;

R7 denotes hydrogen, a hydroxyl group, a nitro group, an amino group, a CO₂R₁₂ group, or a -C(O)CH₃ group;

R8, R10 and R13 can be equal or different and independently of each other denote hydrogen or a C₁-C₄-alkyl group;

R9 denotes an amino or nitrile group;

R11, R14 and R15 can be equal or different and independently of each other denote hydrogen, a hydroxyl group, a C₁-C₄-alkyl group, a C₁-C₄-hydroxyalkyl group, a C₃-C₄-dihydroxyalkyl group or a radical of formula



R12 denotes hydrogen, an amino group or a hydroxyl group, provided that the compound of formula (I) has no center of symmetry and that the R₂ group does not denote hydrogen or a hydroxyl group.